

# SOFCs can theoretically operate on hydrocarbon fuels

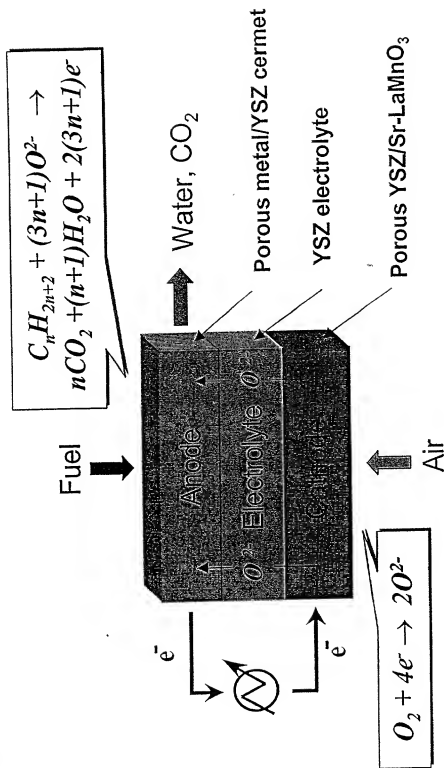


FIGURE 1A

# Stable in liquid fuels

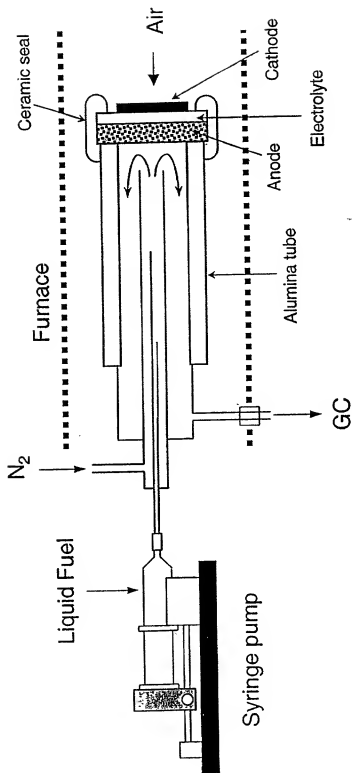
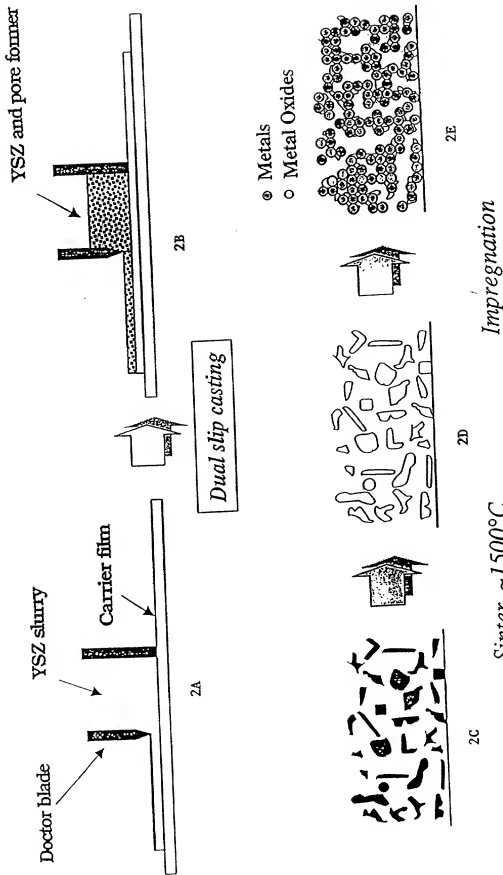


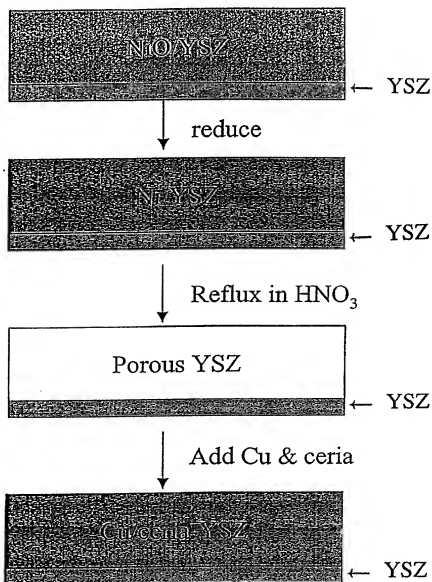
FIGURE 1B

# Fabrication methods:



FIGURES  
2A - 2E

*We can remake Ni cermets.*



**FIGURE 3**

Can we make cells that are stronger?

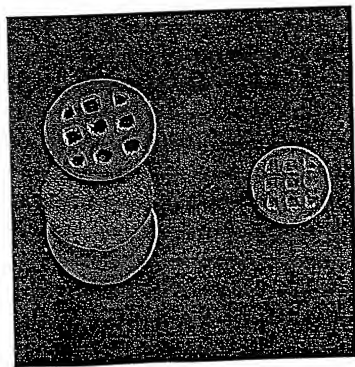


FIGURE 4A

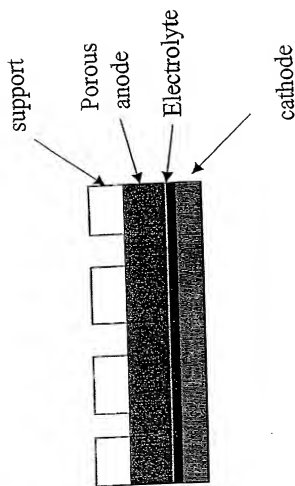


FIGURE 4B

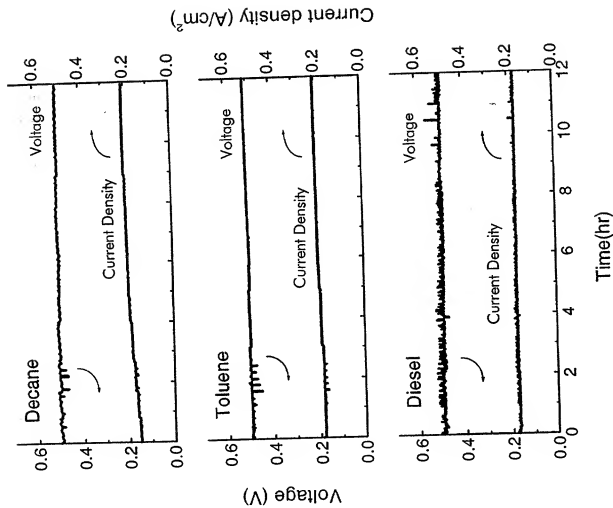


FIGURE 5

106011-580E5001

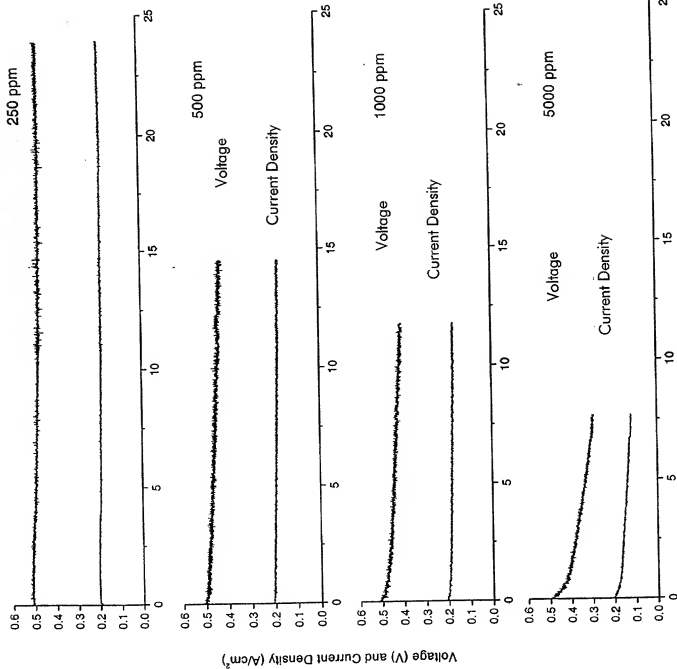


FIGURE 6

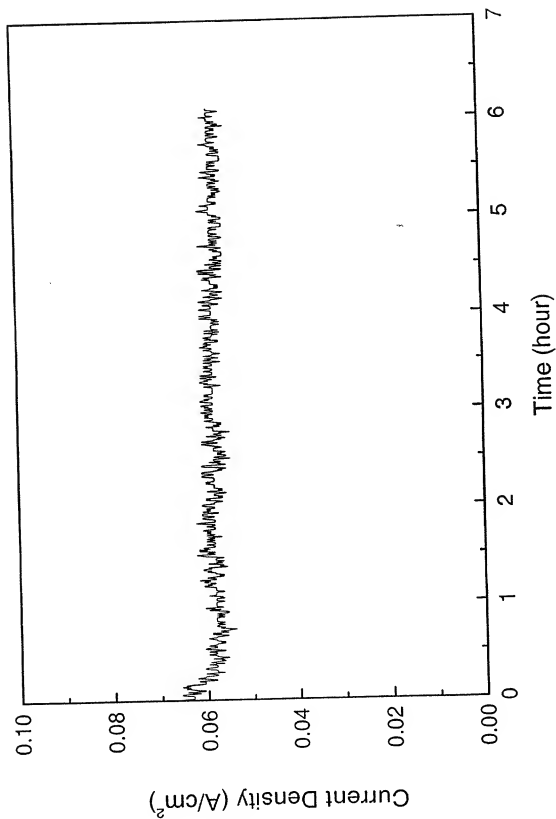


FIGURE 7



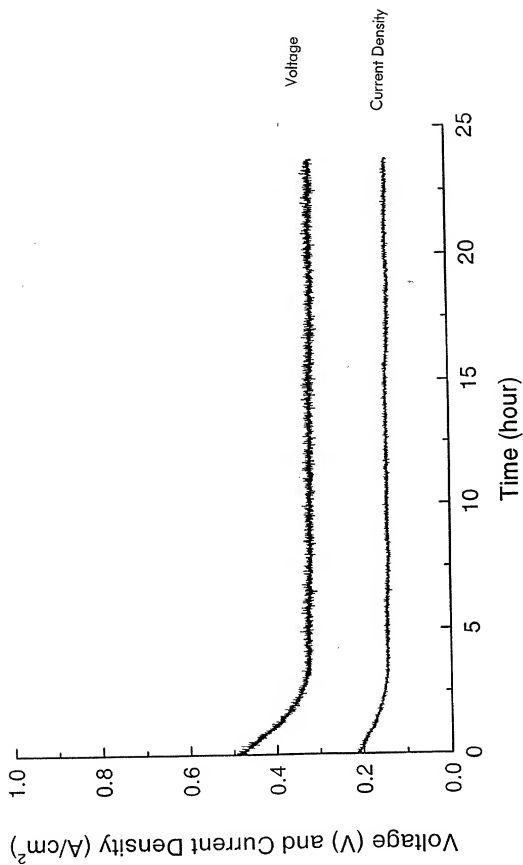


FIGURE 8

106011-58025001

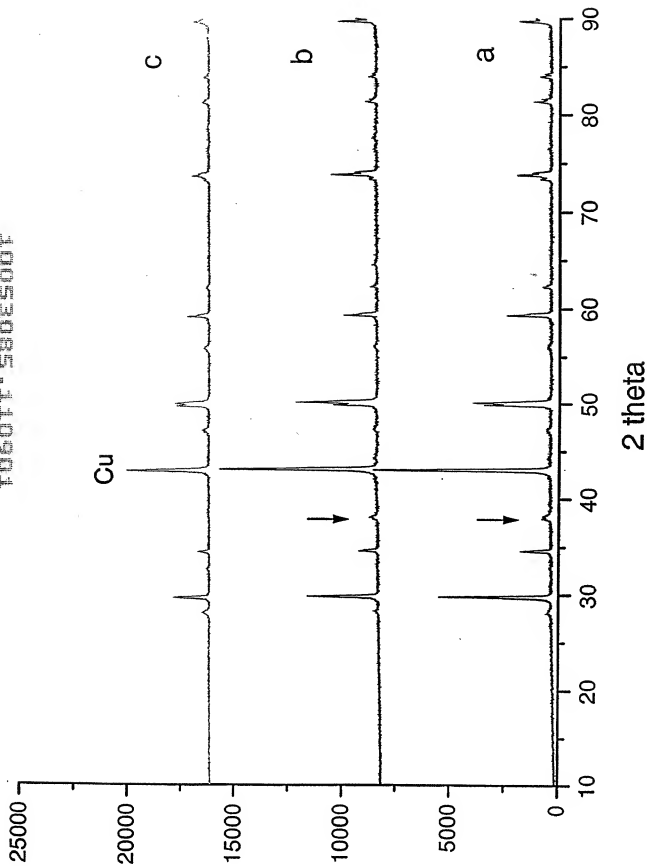


FIGURE 9

P06011"580E5001

# 100% Gasoline

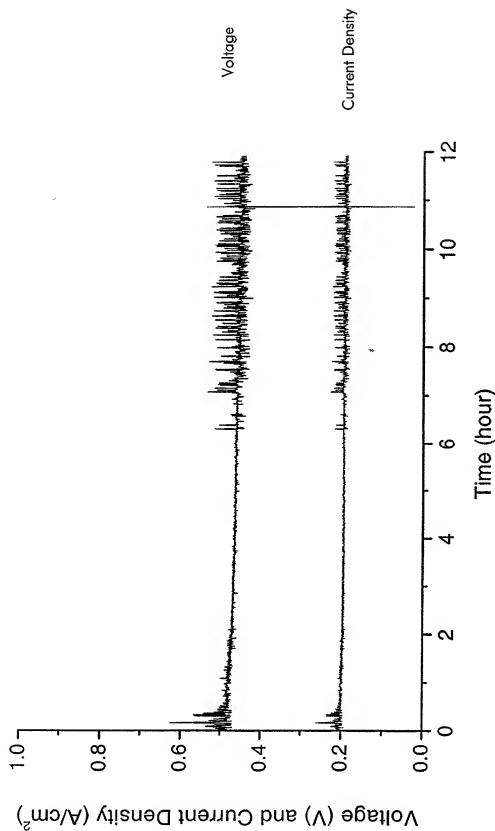


FIGURE 10

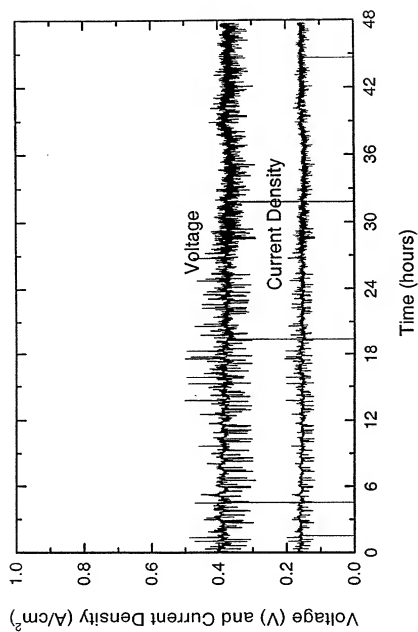


FIGURE 11

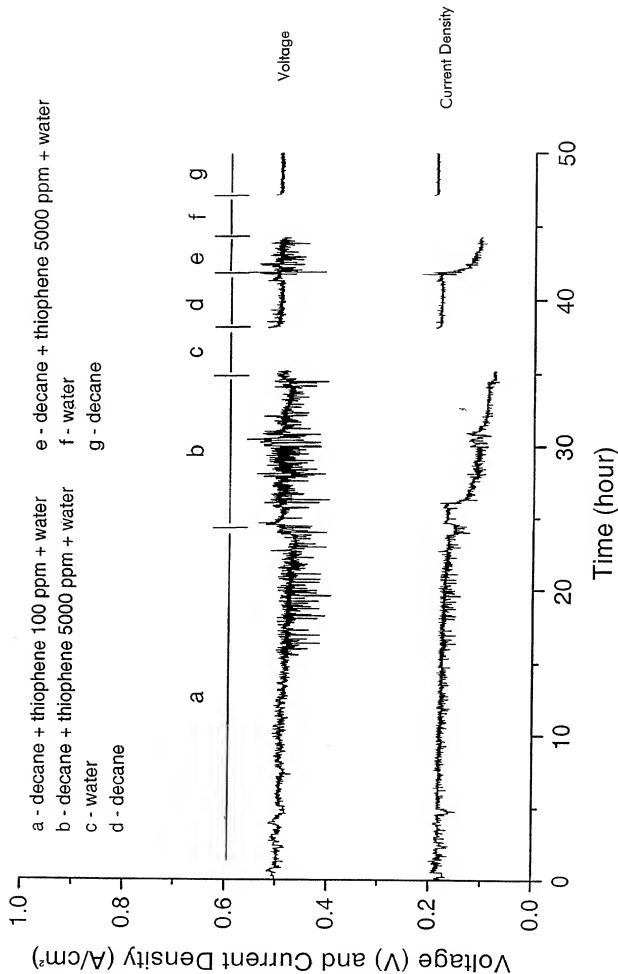


FIGURE 12

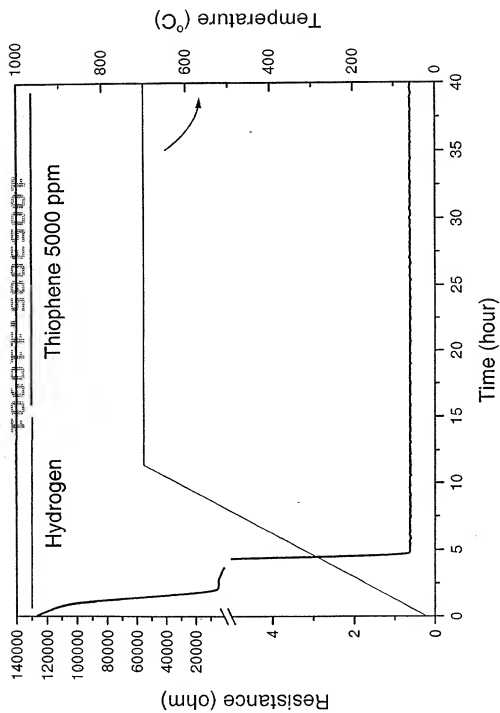


FIGURE 13

Cell made from 40%Ni/YSZ  
cermet, after removal of Ni and  
addition of ceria & Cu.

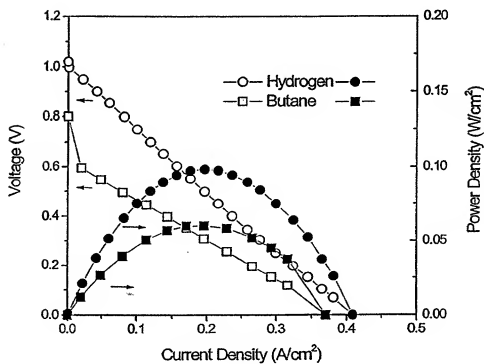


FIGURE 14